Introduction to Cyber Security 14IT605 B.Tech., (Semester- VI) Section A					
Date	: December 26, 2018 Alternate Assessm	nent Test : I			
Dura <i>Set-</i> 2	Duration: 45 mts.Maximum Marks : 30Set-I ($Rno \mod 3 == 0$): 30				
I	What is the OSI security architecture?	(3 M)			
II	What is steganography?	(3 M)			
III	Briefly describe the Playfair cipher.	(3 M)			
IV	Briefly describe the Hill cipher.	(3 M)			
V	Briefly define types of cryptanalytic attacks based on what is known to the attacker	. (3 M)			
VI	What are two problems with the one-time pad?	(3 M)			
VII	What is the difference between diffusion and confusion?	(3 M)			
VIII	What is a product cipher?	(3 M)			
IX	What is the purpose of the S-boxes in DES?	(3 M)			
Х	Explain the avalanche effect.	(3 M)			

Introduction to Cyber Security 14IT605 B.Tech(Semester- VI) Section A					
Date	: December 26, 2018 Alternate Assessment 7	Fest :	Ι		
Duration : 45 mts. Maximum Ma		ırks :	30		
Set-II (Rno mod 3 == 1)					
Ι	What is the difference between passive and active security threats?	(3 M)			
II	Briefly define categories of security services.	(3 M)			
III	What is the difference between an unconditionally secure cipher and a computationally cipher?	secure (3 M)			
IV	Briefly describe the Caesar cipher.	(3 M)			
V	Briefly describe the monoalphabetic cipher.	(3 M)			
VI	What is the difference between a monoalphabetic cipher and a polyalphabetic cipher?	(3 M)			
VII	Why is it important to study the Feistel cipher?	(3 M)			
VIII	What is the difference between a block cipher and a stream cipher?	(3 M)			
IX	Which parameters and design choices determine the actual algorithm of a Feistel cipher?	(3 M)			
Х	What is a singular transformation? Give one example.	(3 M)			

Introduction to Cyber Security 14IT605 B.Tech(Semester- VI) Section A				
Date	e : December 26, 2018 A	Alternate Assessment Test : I		
Dur	ation : 45 mts.	Maximum Marks : 30		
Set-	III (Rno mod 3 == 2)			
Ι	Briefly define categories of passive and active security attacks.	(3 M)		
II	Briefly define categories of security mechanisms.	(3 M)		
III	What are the essential ingredients of a symmetric cipher?	(3 M)		
IV	What are the two basic functions used in encryption algorithms?	(3 M)		
V	How many keys are required for two people to communicate via a c	ipher? (3 M)		
VI	What is the difference between a block cipher and a stream cipher?	(3 M)		
VII	What are the two general approaches to attacking a cipher?	(3 M)		
VIII	What is a transposition cipher?	(3 M)		
IX	Why is it important to study the Feistel cipher?	(3 M)		
Х	What is the difference between a block cipher and a stream cipher?	(3 M)		